## Atrazine | Review # 16 | 2 pages | 4.7.78 UNITED STATES ENVIRONMENTAL PROTICTION AGENCY

DATE:

April 7, 1978

Releasable

SUBJECT:

Section 18 request for the use of Atrazine on Proso Millet

Caswell#63

FROM:

William Greear W. Mooar

Toxicology Branch

TO:

Hoyt Jamerson Special Registration Branch Registration Division (WH-567)



Several tolerances have been established for Atrazine on raw agricultural crops, ranging from 0.02 ppm to 15 ppm(on forage). The following long-term data are available:

°2-Year Dog Feeding Study - NEL = 150 ppm °2-Year Rat Feeding Study - NEL = 100 ppm °3-Generation Reproduction Study - NEL = 100 ppm

The data will support an allowable daily intake (ADI) of 0.0375 mg/kg diet/day, based on the results of the 2-year Dog Feeding Study. The tolerances in existance today account for approximately 3.42% of the ADI. The addition of a temporary tolerance of 0.25 ppm on millet grain and 5 ppm on millet straw will have a maximum theoretical residue contribution (MTRC) of 0.0001125 mg/day of Atrazine to the 1.5 kg diet of a 60 kg human.

This "theoretically" represents approximately 0005% of the ADI or approximately a 0.147% increase in residues of Atrazine contributed to the human daily diet. It should also be noted that Dr. T.A. Dudek, Regional Coordinator IR-4 Project, indicates no detectable residues (<0.1 ppm) were found in proso millet grain or straw samples grown in Western Nebraska.

Therefore, the Toxicology Branch has no objection to the issuance of a Section 18 Emergency Exemption for this specific use since the use will not significantly increase exposure of humans to residues of Atrazine.

\*Note: In a memo from the Chief of the Fungicide-Herbicide Branch dated 2/23/78, it was indicated that Atrazine, manufacturing by Ciba-Geigy is no longer in the hold category (due to possible nitrosamine contamination) and such products may be processed.

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Martine Co.

|                   |                       |           |                           | mer ligging series - a similare A               |  |
|-------------------|-----------------------|-----------|---------------------------|---|--|
|                   |                       | CCEPTABLE | DALLY                     | INTAKE -DATA -                                  | • • •  |
|                   | род                   | NULL      | S.F.                      |   | API  |
| ,                 | mg/kg                 | ppm       |                           | mg/kg/day                                       | mg/day/60kg  |
| •                 | 3.75U                 | 1ວບໍ່.ບົບ | LύU                       | J. 0375   | 2.2500   |
| ) · ˈ             | 3                     |           |                           |   | ac a   |
| 10                | -                     |           |                           |   | The second secon |
| . 11              |                       |           |                           |   | ***  |
| ) <sup>12</sup> , | Publis                | ned Tole  | rances                    | o ar kajar <del>kompan</del> iska kompaniska me |  |
| 13                |                       | 1 20 - 1  |                           | ence Rector                                     | ma/dav/l.5kg   |
| . ".              | CROP                  | 1016      | erance r                  | 2.52  | 0.00947  |
| 13                | Corn,all types(       | 38)       | 0.250                     | 2.02  | 1 ((001:1  |
| * .               | Macadamia nuts (      | 87)(      | 0.250                     | 0.03  | 0.00111  |
| 17                | Pineapple (           | 123)      | U.25U                     | 0.30  | 0,00   |
| •                 | Sorghum(              | 147)      | u.250 '                   | 0.03  | 0.00011  |
| 17                |                       | 1541      | 0.250                     | 3.04  | 0.01364  |
| 20                | Sugar, caneabeet(     | 17u)      | 0.250                     | 10.30   | - v.03886  |
| ) zi              | Eggs (                | 541       | 0.020                     | 2.11  | 0.00083  |
| 22                | Eggs (                |           |                           | 28.62   | v. vu s s s  |
| •,                | milk&pairy Products ( | 33)       | 0.020                     | 13.85   | 0.00415  |
| ) :a              | Meat, inc poultry (   | (69)      |                           |   |  |
| 75                | MOT                   |           |                           | TMRC  | % ADI  |
|                   | HPI                   | 4. 125    | 0 0760                    |   | 3.42   |
| ,<br>,,           |                       | 7/60%g    |                           |   |  |
| 31<br>37          | CROP                  | Tol       | on 18<br>Lerance<br>0.250 | Food Factor                                     | mg/day/1.5kg<br>0.00011  |
| .37               | CROP Millet           | rol       | erance                    | Food Factor                                     | 0.00011  |
|                   | Millet                | ( 94)     | erance<br>0.250           | 0.03  | 0.00011<br>  |
| .37               |                       | ( 94)     | 0.250                     | 0.03<br>  | 0.00011<br>  |
| .37               | Millet                | ( 94)     | 0.250                     | 0.03<br>  | 0.00011<br>  |
| 37                |                       | ( 94)     | 0.250                     | 0.03<br>  | 0.00011<br>  |
| 37                |                       | ( 94)     | 0.250                     | 0.03<br>  | 0.00011<br>  |
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